

LIST OF FIGURES

2.1	Registration phase of Dashes scheme	9
2.2	Login & Verification phase of Dashes scheme	10
2.3	Offline Password Guessing Attack	11
2.4	User Impersonation Attack	11
2.5	Registration phase of Wang's scheme	14
2.6	Login phase of Wang's scheme	15
2.7	Verification phase of Wang's scheme	17
2.8	Offline password guessing attack type-1 in Wang's scheme	18
2.9	Offline password guessing attack type-2 in Wang's scheme	19
2.10	User impersonating attack in Wang's scheme	20
2.11	Scheme of user impersonating attack in Wang's scheme	21
2.12	The probability of collision using 32-bit hash value. Source: [4]	23
3.1	The process of registration phase of the proposed scheme	26
3.2	The process of login and verification phase of the proposed scheme.	27
3.3	The Registration Phase of the Proposed Scheme	30
3.4	The Login Phase of the Proposed Scheme	32
3.5	The Verification Phase of the Proposed Scheme	34
3.6	Pseudo Code of Offline Password Guessing Attack type-1 in the Proposed Scheme	37
3.7	Pseudo Code of Offline Password Guessing Attack type-2 in the Proposed Scheme	38
3.8	Scheme of User Impersonation Attack in the Proposed Scheme	40
3.9	Pseudo Code of User Impersonation Attack in the Proposed Scheme	41
4.1	Algorithm of Offline Password Guessing Attack type-1 in Wang's scheme	53
4.2	Algorithm of Offline Password Guessing Attack type-2 in Wang's scheme	54
4.3	Algorithm of Offline Password Guessing Attack type-1 in the Proposed Scheme	55
4.4	Algorithm of Offline Password Guessing Attack type-2 in the Proposed Scheme	57
4.5	User Impersonation Attack in Wang's scheme	59
4.6	User Impersonation Attack in the Proposed Scheme	61